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TORNEY DOCKET NO.	CONFIRMATION NO.	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/808,483	03/25/2004	Hironori Osuga	033036M073	5757	
441 7590 08/24/2007 SMITH, GAMBRELL & RUSSELL			EXAMINER		
1850 M STREET, N.W., SUITE 800 WASHINGTON, DC 20036	ET, N.W., SUITE 800		SELLERS, ROBERT E		
	DN, DC 20036		ART UNIT	PAPER NUMBER	
			1712		
			MAIL DATE	DELIVERY MODE	
			08/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action

Application No.	Applicant(s)	Applicant(s)		
10/808,483	OSUGA, HIRONORI	OSUGA, HIRONORI		
Examiner	Art Unit			
Robert Sellers	1712			

Before the Filing of an Appeal Brief			· · · · · · · · · · · · · · · · · · ·
	Examiner	Art Unit	
·	Robert Sellers	1712	
The MAILING DATE of this communication appe	ars on the cover sheet with the	correspondence add	ress
THE REPLY FILED 14 August 2007 FAILS TO PLACE THIS AI	PPLICATION IN CONDITION FOR	ALLOWANCE.	
 The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a No a Request for Continued Examination (RCE) in compliance time periods: The period for reply expiresmonths from the mailing 	ving replies: (1) an amendment, af tice of Appeal (with appeal fee) in se with 37 CFR 1.114. The reply m	fidavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire! Examiner Note: If box 1 is checked, check either box (a) or	dvisory Action, or (2) the date set forthater than SIX MONTHS from the mailin	ng date of the final reject	ion.
TWO MONTHS OF THE FINAL REJECTION. See MPEP 7 Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ex under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL 2. The Notice of Appeal was filed on A brief in comp	06.07(f). on which the petition under 37 CFR 1. tension and the corresponding amount shortened statutory period for reply orig r than three months after the mailing da	136(a) and the appropria of the fee. The appropr ginally set in the final Offi ate of the final rejection,	te extension fee iate extension fee ice action; or (2) as even if timely filed,
filing the Notice of Appeal (37 CFR 41.37(a)), or any exte a Notice of Appeal has been filed, any reply must be filed AMENDMENTS	nsion thereof (37 CFR 41.37(e)), to	o avoid dismissal of th	ne appeal. Since
3. The proposed amendment(s) filed after a final rejection, (a) They raise new issues that would require further co (b) They raise the issue of new matter (see NOTE belo	nsideration and/or search (see NC w);	TE below);	
 (c) ☐ They are not deemed to place the application in bet appeal; and/or (d) ☐ They present additional claims without canceling a 	•		the issues for
NOTE: (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.11	· · · · · · · · · · · · · · · · · · ·		(DTOL 224)
5. Applicant's reply has overcome the following rejection(s)		omphant Amendment	(FTOL-324).
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	lowable if submitted in a separate,	•	· ·
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is profit The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected:	☐ will not be entered, or b) ☐ wivided below or appended.	ill be entered and an e	explanation of
Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good an was not earlier presented. See 37 CFR 1.116(e). 	d sufficient reasons why the affida	vit or other evidence is	s necessary and
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessary	overcome <u>all</u> rejections under appe y and was not earlier presented. S	al and/or appellant fai See 37 CFR 41.33(d)(ls to provide a 1).
10. ☐ The affidavit or other evidence is entered. An explanatio REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	entry is below or attact	ned.
 The request for reconsideration has been considered bu <u>See the attachment.</u> 	t does NOT place the application i	n condition for allowa	nce because:
12. ☐ Note the attached Information Disclosure Statement(s).13. ☐ Other:	(PTO/SB/08) Paper No(s)		
		Robert Sellers Primary Examiner Art Unit: 1712	

Application/Control Number: 10/808,483

Page 2

Art Unit: 1712

1. The claimed silicone compound (D) embraces a silicone oil and polyorganosiloxanes (page 7, lines 19-21 of the specification which could also cause the ultrafine silica to not act as proper ultrafine silica just as the silicone oil stress-reducing agent (C), hydrophobic organopolysiloxane (D-i) and hydrophilic polyoxyalkylene-modified silicone oil (D-ii) of Ichiroku et al. Patent No. 6,506,822 (col. 2, lines 22-61 and col. 5, lines 4-5).

- 2. Ichiroku et al. discloses from 0.1 to 20 parts by weight of finely divided silica having a specific surface area of at least 100 m²/g (col. 2, lines 36-38) and shows fused silica SE15 (col. 14, Examples 1-10, lines 30-31) and RD 8 (col. 15, Example 11, lines 58-59) without identifying the specific surface areas.
- 3. The comparision between Examples 2 and 4 in Table 1 on page 15 of the specification using ultrafine silica having particle sizes of 180 and 240 m²/g, respectively, representative of the claims and Comparative Examples 3 and 4 with ultrafine silica having particle sizes of 100 and 340 m²/g, respectively, exhibit the same or comparable results in thermal conductivity, warpage of package and temperature cycle property at 500 and 1000 cycles. Comparative Example 4 shows a lower spiral flow and Comparative Example 3 exhibits a higher length of flash. However, the evidence is not commensurate in scope with the claims. Examples at 180 and 240 m²/g do not establish the criticality of the claimed broader range of from 120 to 280 m²/g, especially considering the decreasing trend in spiral flow as the specific surface area increases from 130 cm at 100 and 180 m²/g to 120 cm at 240 m²/g to 70 cm at 340 m²/g, thus calling into question the value at the claimed upper limit of 280 m²/g.

Application/Control Number: 10/808,483 Page 3

Art Unit: 1712

4. The declaration filed August 14, 2007 attemps to confirm the criticality of the claimed proportion range of spherical alumina of from 85% to 92% by weight.

The testing of a single amount of 90.0% by weight does not confer patentability to the claimed range when considering that as the level of spherical alumina increases, the spiral flow decreases, the length of flash decreases, and the temperature of cycle properties decrease. Therefore, the data demonstrate trends which raises the issue of whether the claimed limits of 85% and 92% by weight would exhibit unexpected results within acceptable values.

5. Any properties addressing the thermal expansion such as warpage of package and heat conduction such as thermal conductivity with respect to the quantity of spherical alumina are already recognized in Shintai et al. Patent No. 5,362,775 (col. 11, lines 22-24) and are therefore not unexpected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Sellers whose telephone number is (571) 272-1093. The examiner can normally be reached on Monday to Friday from 9:30 to 6:00. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

/Robert Sellers/

Robert Sellers Primary Examiner Art Unit 1712